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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/909,330	07/19/2001	Dale C. Flanders	1035us	9626	
25263	7590 04/09/2003				
J GRANT HOUSTON			EXAMINER		
I FORTUNE			ZAHN, JEFFREY N		
BILLERICA,	1A 01821		ART UNIT	PAPER NUMBER	
			2828		
	·	•	DATE MAILED: 04/09/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)		
		09/909,330	FLANDERS, DALE C.	FLANDERS, DALE C.	
		Examiner	Art Unit		
		Jeffrey N Zahn	2828		
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet	with the correspondence address		
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a repl It is period for reply is specified above, the maximum statutory period or retore to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may y within the statutory minimum of t will apply and will expire SIX (6) M to cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	cation.	
1)	Responsive to communication(s) filed on	· •			
2a) <u></u>	· · · · · · · · · · · · · · · · · · ·	is action is non-final.			
3)□	Since this application is in condition for allows closed in accordance with the practice under			its is	
· · <u> </u>	ion of Claims				
	Claim(s) <u>1-24</u> is/are pending in the application		0		
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	Paul Do		
· <u> </u>	Claim(s) is/are allowed.		PAUL IP		
	Claim(s) <u>1-24</u> is/are rejected.		SUPERVISORY PATENT EXAMINER	₹	
	Claim(s) is/are objected to.		TECHNOLOGY CENTER 2800		
	Claim(s) are subject to restriction and/o ion Papers	r election requirement.			
_	The specification is objected to by the Examine	er			
	The drawing(s) filed on is/are: a)□ accept		the Examiner		
,—	Applicant may not request that any objection to the	·			
11) 🔲	The proposed drawing correction filed on				
	If approved, corrected drawings are required in re	ply to this Office action.			
12)	The oath or declaration is objected to by the Ex	aminer.			
Priority (under 35 U.S.C. §§ 119 and 120				
13)[Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C	c. § 119(a)-(d) or (f).		
a)	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority document	s have been received.			
	2. Certified copies of the priority document	s have been received in	Application No		
* 9	3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	ı	
14) 🗌 A	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.0	C. § 119(e) (to a provisional applic	cation).	
) The translation of the foreign language pro Acknowledgment is made of a claim for domest			·	
Attachmen		•			
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)		
S. Patent and Ti	rademark Office				

Application/Control Number: 09/909,330

Art Unit: 2828

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claim1 and all claims that dependent therefrom, it is unclear/vague how the claimed elements interrelate to comprise a "fixed wavelength, external cavity semiconductor laser." and the body of the claim does not support a "fixed wavelength, external cavity semiconductor laser." For example, 1) what makes up the external cavity of the preamble?; 2) where is the intra cavity filter located within the cavity relative to the assumed reflectors/mirrors of the cavity?; 3) what comprises the modulation system and how is this system configured relative to the external semiconductor laser" and 4) what structural limitations are part of the intracavity that enable a "filter function."

Regarding Claim 21 and all claims that depend therefrom, it is unclear/vague 1) how the collimating lens is attached to the filter material; and 2) what defines the "spectral filter material." In addition, the claim recites an "intracavity composite filtering structure" in the preamble; however, the body of the claim does not recite any structure to support a cavity or specify any structural relationships that would clearly define the

Application/Control Number: 09/909,330

Art Unit: 2828

location of the filtering structure within the cavity; accordingly, the claim is vague/indefinite.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Flanders et al. (US 6339603).

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding Claims 1-24, Flanders et al. discloses a fixed wavelength, external cavity semiconductor laser, comprising:

a semiconductor gain medium (422);

an intracavity filter (410) having a filter function specifying a frequency response of operation of the laser; and

modulation system (716) that modulates an optical length of the cavity to change spectral locations of longitudinal modes of the cavity relative to the filter function.

In addition, Flanders et al. clearly describes within the claims polarization rotators, coated facets, etc. as claimed by the Applicant.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Vilhelmsson et al. (US5530714), Tayebati (US 6041071), Caprara et al. (US 6097742), Caprara et al. (US 6285702), Flanders et al. (US 6339603), Flanders (US 6345059), Flanders (US 6366592), Roychoudhuri et al. (US 6438147), Spinelli et al. (US 6507593) and Kuznetsov et al. (US 2003/0021308).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey N Zahn whose telephone number is 703-305-3443. The examiner can normally be reached on M-F: 8:30-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on 703-308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800

Jeffrey Zahn April 4, 2003

0956.